

MATERIAL SAFETY DATA SHEET

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Loctite(R) Extend(R) Rust Neutralizer
81138

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Loctite(R) Extend(R) Rust Neutralizer
Item No.: 81138
Part No.: RT-8
Product Type: Acid-Modified Emulsion

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Water	7732-18-5	45-50
Vinylidene-acrylic copolymer	Proprietary	35-40
Barium sulfate	7727-43-7	5-10
2-BUTOXYETHANOL*	111-76-2	1-3
Organic acid	Proprietary	1-3
Propylene glycol	57-55-6	1-3
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	1-3

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Barium sulfate	10 mg/m3 dust	10 mg/m3 dust 5 mg/m3 respir.	None
2-BUTOXYETHANOL	20 ppm	50 ppm TWA skin 120mg/m3 skin	None
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA resp. dust

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
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3. HAZARDS IDENTIFICATION

Toxicity: May irritate eyes and skin. High vapor concentration may irritate respiratory tract. May cause gastric disturbances if swallowed. Exposure to butoxyethanol can cause nausea, dizziness, vomiting, malaise, incoordination, diarrhea, weakness, eye redness, and swelling of the conjunctiva. The organic acid can irritate

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3. HAZARDS IDENTIFICATION

(continued)

the nose and throat upon inhalation. The low concentration of these components minimizes the probability that these symptoms may occur.

Primary Routes of Entry: None known

Signs and Symptoms of Exposure: Irritation of eyes and skin. Skin may be stained contact.

Existing Conditions

Aggravated by Exposure: Butoxyethanol: dermatitis

Ingredients	Literature Referenced	Carcinogen		
	Target Organ and Other Health Effects	NTP	IARC	OSHA
Water	NTO	NO	NO	NO
Vinylidene-acrylic copolymer	No Data	NO	NO	NO
Barium sulfate	LUN	NO	NO	NO
2-BUTOXYETHANOL	BLO CNS IRR KID	NO	NO	NO
Organic acid	BLO COR IRR KID LIV	NO	N/A	NO
Propylene glycol	IRR	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO

Abbreviations

N/A Not Applicable	BLO Blood
CNS Central nervous system	COR Corrosive
IRR Irritant	KID Kidney
LIV Liver	LUN Lung
NTO No Target Organs	NUI Nuisance dust

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms persist seek medical attention

Skin Contact: Flush with water at once to avoid staining skin; then wash with soap and water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

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5. FIRE FIGHTING MEASURES

Flash Point: None - aqueous medium Method: Tag Closed Cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomposition: Irritating organic vapors, oxides of carbon, toxic
gases such as hydrogen chloride
Unusual Fire or
Explosion Hazards: None
Explosive Limits:
(% by volume in air) Lower Butoxyethanol: 1.1%
(% by volume in air) Upper Butoxyethanol: 10.6%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case
of spill or leak: Clean up with detergent and water.

7. HANDLING AND STORAGE

Safe Storage: Store between 40-105°F
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid skin contact. Keep away from eyes.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Impermeable rubber or plastic gloves.
Ventilation: Normal ventilation is adequate for occasional use.
For continuous or spray application, provide
local exhaust ventilation.
Respiratory: Not available
See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Milky liquid
Odor: Mild
Boiling Point: Approximately 212°F
pH: 1.95
Solubility in Water: Water-based
Specific Gravity: 1.202
Volatile Organic Compound
(EPA Method 24) 110 grams of VOC per liter of coating
Vapor Pressure: Approximately 24 mm

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9. PHYSICAL AND CHEMICAL PROPERTIES

(continued)

Vapor Density: 1.2
Evaporation Rate
(Ether = 1) Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong bases will coagulate resin; strong
oxidizers.
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

Estimated oral LD50 more than 5000 mg/kg.
Estiamted dermal LD50 more than 2000 mg/kg.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of
disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste
Number D002 - Hazardous waste per 40CFR 261.22

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted
Hazard Class or
Division: Unrestricted
Identification Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

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15. REGULATORY INFORMATION

CA Proposition 65: No Prop65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 1*
Flammability Hazard: 1
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Kyra Kozak Woods
Title: Health and Regulatory Affairs Specialist
Company: Henkel Loctite Corporation, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
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